transactions of the ASME
SOCIETY RECORDS • ASME ANNUAL AM-5 • JANUARY 1973

# indexes to 1972 publications

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INDEXES TO ASME PAPERS AND PUBLICATIONS

INDEX TO MECHANICAL ENGINEERING

INDEX TO TRANSACTIONS OF THE ASME

PUBLISHED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

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# indexes to 1972 publications

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Toledo.....University of Toledo
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Youngstown.....Youngstown State University
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Manchester.....Manchester College of Science and Technology
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# Indexes to ASME Papers and Publications

## Volume 94, 1972

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ASME Transactions, quarterlies (see combined index on page SR-107)
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Series B, *Journal of Engineering for Industry*
Series C, *Journal of Heat Transfer*
Series D, *Journal of Basic Engineering*
Series E, *Journal of Applied Mechanics*
Series F, *Journal of Lubrication Technology*
Series G, *Journal of Dynamic Systems, Measurement and Control*
*Applied Mechanics Reviews*, monthly
*Applied Mechanics Reviews*, Annual Index, 1972

## Publications Issued in 1972

### BOOKS AND REPORTS

Advanced Centrifugal Compressors
Annals of Reliability and Maintainability
Applications of Holography in Mechanics
Applied Mechanics Aspects of Nuclear Effects in Materials
Cavitation Forum—1971
2¼ Chrome 1 Molybdenum Steel in Pressure Vessels and Piping
Computer Software in Structural Analysis
Design for Elevated Temperature Environment
Diesel and Gas Engine Power Proceedings—1970
Engineering Computer Software: Verification, Qualification, Certification
Environmental and Geophysical Heat Transfer—Volume 4
Freight Car Impact—Volume 1
Fluid Dynamic Measurements
Fluid Meters, Their Theory and Application
Heat Transfer in Low Reynolds Number Flow—Volume 5
Life Adjustment Factors for Ball and Roller Bearings—An Engineering Design Guide
North American Fuel Technology
Rail Transportation Proceedings—1971
Recent Developments in Thermophysical Properties Research—Volume 3
Report on Diesel and Gas Engine Power Costs—1971
Role of Nucleation in Boiling and Cavitation—Discussions Only
Spent Nuclear Fuel Heat Transfer—Volume 2
Survey of Nucleonic Heat Transfer—Volume 1
Synthesis of Vibrating Systems

### PERFORMANCE TEST CODES

Code on Definitions and Values

## How To Find Papers Presented at 1972 ASME Meeting

The technical programs of the meetings of the Society and of its Professional Divisions have been published in MECHANICAL ENGINEERING and may be located by consulting the index on page SR-21. Many of these papers will be published in MECHANICAL ENGINEERING or the *Transactions* and may be located by reference to the indexes of these publications.

## Currently Available ASME Publications

ASME members may purchase most of the publications listed below at a 20 percent discount. Handling and mailing charges are added to price when payment does not accompany order.

## American National Standards

### ELEVATOR CODES & GENERAL STANDARDS

A13.1—1956 Scheme for the Identification of Piping Systems (L33) $2.00
A17.1—1971 Elevators, Dumbwaiters, Escalators and Moving Walks (A31) $11.75
A17.2—1960 Practice for the Inspection of Elevators-Inspectors' Manual (With 1956 and 1967 Addenda) (A32) $5.25
1965 Addenda only (A33) $1.00
1967 Addenda only (A36) $1.50
A40.4—1942 & A40.6—1943 Air Gaps and Backflow Preventers in Plumbing Systems (J6) $2.50
A40.5—1943 Threaded Cast Iron Pipe for Drainage, Vent and Waste Services (M22) $2.00
A40.8—1955 National Plumbing Code (L10) $2.00
A90.1-1969 Manlifts (B8) $3.00
A112.11.1—1968 Self-Contained, Mechanically Refrigerated Drinking Water Coolers (J39) $2.00
A112.18.1—1971 Finished and Rough Brass Plumbing Fixture Fittings (J29) $2.50
A112.21.1—1968 Floor Drains (J40) $2.00
A112.21.2—1971 Roof Drains (J2) $2.50
A112.26.1—1969 Water Hammer Arresters (K20) $2.50
A113.1—1964(R1971) Mechanized Parking Garage Equipment (M54) $4.50

### SCREW THREADS, PIPE THREADS & CYLINDRICAL PARTS

B1.1—1960 Unified Screw Threads (M28) $6.00
B1.1a—1968 Unified Screw Threads—Metric Translation (M29) $3.50
B1.2—1966 Gages and Gaging for Unified Screw Threads (N58) $6.00
B1.7—1965 Nomenclature, Definitions and Letter Symbols for Screw Threads (L11) $2.75
B1.10—1958 Unified Miniature Screw Threads (N25) $2.00
B1.11—1958 Microscope Objective Thread (N20) $2.00
B1.12—1963 Class 5 Interference—Fit Thread (N32) $2.00
B2.1—1968 Pipe Threads (Except Dryseal) (L18) $4.25
B2.2—1968 Dryseal Pipe Threads (M36) $4.25
B2.4—1966 Hose Coupling Screw Threads (K14) $2.75
B4.1—1967 Preferred Limits and Fits for Cylindrical Parts (L22) $3.00

### MACHINE TOOLS, COMPONENTS, ELEMENTS, PERFORMANCE & EQUIPMENT

B5.1—1949 T-Slots—Their Bolts, Nuts, Tongues and Cutters (M24) $2.00
B5.5—1959 Rotating Air Cylinders and Adapters (L31) $2.00
B5.8—1954(R1959) Chucks and Chuck Jaws (J24) $2.50
B5.9—1957 Spindle Noses for Tool Room Lathes, Engine Lathes, Turret Lathes and Automatic Lathes (M10) $3.50
B5.10—1963 Machine Tapers (L4) $3.50
B5.11—1964 Spindle Noses and Adjustable Adapters for Multiple Spindle Drilling Heads (M8) $2.00
B5.16—1952 Accuracy of Engine and Tool Room Lathes (J4) $2.00
B5.18—1960 Spindle Noses and Arbors for Milling Machines (M9) $2.00
B5.20—1958 Machine Pins (L3) $2.00
B5.25—1968 Die Sets (L27) $3.00
B5.28—1971 Mounting Dimensions of Lubricating and Coolant Pumps for Machine Tools (L9) $2.50
B5.32—1953 Designation and Working Ranges of Grinding Machines (J28) $2.00
B5.33—1970 External Cylindrical Grinding Machines—Plain (Revision of B5.33—1953) (M38) $2.50
B5.35—1969 Machine Mounting Specifications for Abrasive Discs and Plate Mounted Wheels (M35) $3.00
B5.37—1970 External Cylindrical Grinding Machines—Centerless (M39) $2.00
B5.38—1958 Driving and Spindle Ends for Portable Air and Electric Tools (N23) $2.00
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B5.41—1968 Quill Flanges and Spindle Ends for Upright and Horizontal Drill Spindles for Production Type Drilling Machines (K18) $2.00
B5.42—1970 External Cylindrical Grinding Machines—Universal (M40) $2.25

## GEARS & POWER-TRANSMISSION APPARATUS

B6.1—1968 Tooth Proportions for Coarse-Pitch Involute Spur Gears (M11) $2.00
B6.5—1954 Letter Symbols for Gear Engineering (K27) $2.00
B6.6—1946 Gear Tolerances and Inspection (K2) $2.00
B6.7—1967 Tooth Proportions for Fine-Pitch Involute Spur and Helical Gears (M26) $2.00
B6.9—1956(R1962) Design for Fine-Pitch Wormgearing (J26) $2.00
B6.10—1954 Gear Nomenclature (K1) $2.00
B6.11—1956 Inspection of Fine-Pitch Gears (K17) $3.50
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## PIPE FLANGES & FITTINGS

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B16.5 a&b—1971 Addenda Only (M17) $1.00
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B30.7—1971 Base Mounted Drum Hoists (B2) $3.00
B30.8—1971 Floating Cranes and Floating Derricks (J23) $4.00

## PIPING

Code for Pressure Piping, B31 Interpretations (M33)
Booklet containing cases in effect January 1, 1970.....$10.00
Subscription to Interpretations..... 4.00
Per Year..... 4.00
Three Years ..... 9.00
Individual Cases (M34)..... 1.00
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## ASME Standards

APS—1 Recommended Guide for the Control of Dust Emissions—Combustion for Indirect Heat Exchangers. 1968. $2.50; Discussion on ASME Standard APS—1. 1967. $2.50
APS—2 Recommended Guide for the Control of Oxides of Sulfur (With Supplement). 1970. $3.00 (Supplement only. $1.00)
No. 101 Operation and Flow Process Charts. 1949. $2.50
No. 102 Form for Use in Self-Appraisal of Industrial Plants. 1947. $2.50
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No. 111 Recommended Practices for the Design of Marine Propulsion Turbine Lubricating Systems. 1960. $2.00
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No. 116 Recommended Practices for the Design of Steam Turbine Generator Oil Systems. 1968. $2.50
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Draft ASME Code for Pumps and Valves for Nuclear Power (With 1970 Addenda). 1968. $5.00 (Addenda only. $2.00)
ASME Guide for Gas Transmission and Distribution Piping Systems—1973 (With 3-year subscription to Supplements) $50.00

## Books and Reports

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Applications of Holography in Mechanics. 1971. $7.50
Applied Mechanics Aspects of Nuclear Effects in Materials. 1971. $20.00
Applied Mechanics Surveys. 1966. $37.50
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Mathematical Theory of Dislocations. 1969. $16.50
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Surface Mechanics. 1969. $13.00
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Defining Transportation Requirements—1968 Transportation Engineering Conference. 1969. $17.50
1966 National Transportation Symposium. 1966. $22.50
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Reliability and Maintainability (Reprinted from MECHANICAL ENGINEERING). 1966. $2.00
1968 Reliability and Maintainability Conference Proceedings—"Annals of Assurance Sciences." 1968. $27.00
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1970 Joint Automatic Control Conference. 1970. $30.00
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### FLUID/FLOW

Advances in Fluidics (With Discussion Booklet). 1967. $22.00 (Discussion only. $2.00)
Cavitation in Fluid Machinery (With Discussion Booklet). 1965. $16.00 (Discussion only. $2.50)
Cavitation Forum. 1971. $5.50; 1970 (With 1969 Discussion Booklet) $5.50; 1969. $4.00; 1968. $2.50; 1967. (With Discussion Booklet) $3.50; 1966. $2.00
Cavitation Research Facilities and Techniques (Including Discussions). 1964. $12.50
Cavitation State of Knowledge (With Discussion Booklet). 1969. $18.50 (Discussion only. $2.50)
Flow Measurement Symposium. 1966. $18.00
Flow-Induced Vibration in Heat Exchangers. 1970. $12.00
Flowmeter Computation Handbook. 1961. $12.50
Fluid Dynamic Measurements. 1971. $17.50
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Water Hammer in Hydraulics and Wave Surges in Electricity. 1961. $15.00
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### HEAT TRANSFER

Survey of Nucleonic Heat Transfer—Volume 1. 1971. $5.00
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**Hebert, Joel** Power in the Year 2001 (*C*) **F 55**
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**Hedgcoxe, P. G.** Pressurization of a Solidifying Sphere [71-APM-AAA] (*A*) **Ap 74**
**Hedron City**
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**Hefner, W. J.** Heavy Duty Marine Gas Turbines—A Case Study [72-GT-68] (*A*) **Je 56;** *A* New Generation Heavy Duty Gas Turbine for Pipeline Applications [72-GT-83] (*A*) **Je 58**
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**Hematite**
Flow Behavior of Hematite Slurries [72-MH-12] (*A*) **D 59**
**Henderson, R. E.** An Approximate Analysis of the Unsteady Lift on Airfoils in Cascade [72-GT-5] (*A*) **My 64**
**Hendrickson, R. L.** Proposed Gas Turbine Procurement Standard: Rating and Performance [71-WA/GT-1] (*A*) **Ja 52**
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**Hengel, M. F.** Brake-System Operation and Testing Procedures and Their Effects on Train Performance [71-WA/RT-9] (*A*) **Mr 50**
**Hensel, R. P.** Coal-Ash Composition as Related to High-Temperature Fireside Corrosion and Sulfur-Oxides Emission Control [71-WA/CD-4] (*A*) **F 48**
**Henson, E. B.** Mathematical Modeling of Nuclear Plant Thermal Effects in Lake Champlain [71-WA/Pwr-4] (*A*) **Ap 69**
**Henz, D. J.** Emission Regulations for Fuel-Burning Installations—Effect of the Clean Air Act [71-WA/APC-2] (*A*) **My 59**
**Hepworth, H. K.** Laminar Flow of an Incompressible Fluid in a Conduit with Arbitrary Cross Section, Arbitrary Time-Varying Pressure Gradient, and Arbitrary Initial Velocity [71-WA/FE-22] (*A*) **Mr 60**
**Herrala, T. W.** Requirements Impact on the Shuttle ETC/LSS [72-ENAv-18] (*A*) **O 62**
**Herrick, R. L.** Considerations of Emission Control Methods and Devices for Stationary Sources [71-WA/Fu-5] (*A*) **My 61**
**Herrmann, G.** Moving Load on a Fluid-Solid Interface: Supersonic Regime [72-APM-42] (*A*) **Ag 53**
**Hersey [Mayo D.] Award**
1971 recipient is Dudley Dean Fuller **Ja 73**
1972 award presented to Sydney J. Needs at International Lubrication Conference, 1972 **D 90**
**Hesler, L. J.** A Generalized Integral Computation Technique for Nonequilibrium Compressible Turbulent Boundary Layers Using Moment Equations [71-WA/APM-12] (*A*) **Ap 73**
**Hesse, A.** deceased **O 101**
**Hessmann, G. Dan** ASME-NSPE Affiliate (*C*) **Ap 76**
**Hetu, Thomas P.** elected Fellow ASME **Mr 96**
**Heuser, Henry V.** elected Fellow ASME **Ja 104;** receives Fellow certificate **Ap 104**
**Hewitt, G. F.** Overall Viewpoint of Flow Boiling CHF Mechanisms [72-HT-54] (*A*) **S 56**
**Heyt, J. W.** Evaporation and Liquid Film Dry-Out in Binary Spray Flow [72-HT-30] (*A*) **S 55;** Thermal Protection of Wellbore Casings [72-Pet-1] (*A*) **N 64**
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**Hill, C. S.** deceased **S 91**
**Hill, P. G.** Analysis and Testing of Compressible Flow Ejectors with Variable Area Mixing Tubes [72-FE-14] (*A*) **Je 61**
**Hill, R. F.** Measuring Tool Wear: Radiometrically [based on 71-DE-42] **F 22**
**Hillier, M. J.** Mixed Lubrication of "Parallel" Plane Sliders [72-APM-HH] (*A*) **S 61**
**Hilt, M. B.** Nitric Oxide Abatement in Heavy Duty Gas Turbine Combustors by Means of Aerodynamics and Water Injection [72-GT-53] (*A*) **Je 55**
**Hinges**
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**Hirano, Fujio** Dynamic Behavior of Heavy-Loaded Spur Gears [72-PTG-14] (*A*) **D 53**
**Hiruma, M.** Measurement of Journal Locus in Con-Rod Big-End Bearing of an Automobile Gasoline Engine [72-Lub-5] (*A*) **S 62**
**Hischier, R. J.** Simulation and Optimization of LNG Shipping Systems [72-Pet-45] (*A*) **N 69**
**History and Heritage**
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**Ho, C. Y.** Velocity and Acceleration Analysis of Four-Bar Spatial Mechanisms by Tensor Methods [71-WA/DE-15] (*A*) **F 48**
**Hocke, H.** Wear-Resistant Materials for Steelworks Plant Handling Coke and Sinter [72-MH-9] (*A*) **D 58**
**Hodgeman, H. H.** Reliability of Inertia Welded Pressure Piping Components [72-Pet-28] (*A*) **N 67**
**Hodography**
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**Hoeg, J. G.** Effects of Cold Working Under Pressure on Subsequent Yield [71-WA/PT-6] (*A*) **Ap 66**
**Hoelzer, C. A.** Cycle Flexibility: Its Impact on V/STOL Tactical Aircraft Propulsion Systems [72-GT-105] (*A*) **Jl 52**
**Hoffman, H. T.** deceased **N 103**
**Hogland, G. H.** Designs of a Bistable Fluid Device for Transporting Solid Particles [72-MH-27] (*A*) **D 60;** Flow of Particles in a Bistable Fluid Device [72-MH-28] (*A*) **D 60**
**Hohnholt, F. F.** deceased **Mr 97**
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**Holding**
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**Holes**
Analysis of Stress Concentrations in Thick Cylinders with Sideholes and Crossholes [71-WA/PVP-9] (*A*) **Ap 70**
Effect of Corner Shape on Elastic Stress and Strain Concentration in Plates with an Oblique Hole [72-PVP-A] (*A*) **N 63**
*On the* Extension of an Infinite Elastic Plate Containing an Axisymmetric Hole [72-APM-G] (*A*) **S 59**
Shear Waves Guided by a Cylindrical Hole in a Finitely Deformed Elastic Solid [72-APM-C] (*A*) **S 59**
Stability Control Analysis of Rotating Plates by Finite Element: Emphasis on Slots and Holes [71-WA/Aut-2] (*A*) **F 49**
Stress State Around an Elliptic Hole in a Conical Shell Under Tension [72-PVP-11] (*A*) **N 62**
**Holiday, George H.** elected Fellow ASME **My 104**; receives Fellow certificate **Ag 98**
**Hollands, K. G. T.** Natural Convection in Horizontal Thin-Walled Honeycomb Panels [72-HT-60] (*A*) **S 57**
**Hollerith, C.** deceased **N 103**
**Hollowness**
Relief of Stresses in a Hollow Circular Disk with Heated Stamps on the External Surface Through Creep [72-APM-M] (*A*) **O 66**
**Hollyer, J. H.** deceased **N 103**
**Holmes, John F.** Tuned Floating Platform for Offshore Power Facilities [based on 71-WA/Ener-5] **O 37**; Tuned Floating Platform for Off-Shore Siting of Bulk Power Facilities [71-WA/Ener-5] (*A*) **Ap 62**
**Holmes, R. F.** Bosch $CO_2$ Reduction Unit Research and Development [72-ENAv-10] (*A*) **O 61**
**Holmes, V. H.** Diesel and Gas Engine Power Costs and Trends [72-DGP-13] (*A*) **Jl 56**
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Holography Camera [BTR] **Mr 42**
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3-D Parts Analysis [BTR] **F 32**
*A* Unitized and Portable Holographic Interferometer [72-HT-10] (*A*) **S 53**
Vibration Analysis by Holography [based on 71-Vibr-105] **Je 26**
**Holzbock, Werner G.** elected Fellow ASME **Ja 104**
**Holzwarth, H. T.** Proposed Gas Turbine Procurement Standard: Gaseous and Liquid Fuels [71-WA/GT-3] (*A*) **Ja 52**
**Homes, Andre G.** Lateral Pressures of Granular Material in Silos [72-MH-30] (*A*) **D 61**
**Honeycombs**
Natural Convection in Horizontal Thin-Walled Honeycomb Panels [72-HT-60] (*A*) **S 57**
Two-Stage Bumper [BTR] **Ap 52**
**Honors**
ASME Honorary Membership, 1971, to Robert A. Bowman, Mylon E. Merchant, Nathan M. Newmark **Ja 79**
ASME Medal, 1971, to Horace Smart Beattie **Ja 79**
ASME President's Award of Merit presented to Richard M. Nixon and Edward E. David, Jr. **Jl 99**, to Henry M. Jackson **Ag 74**
Blackall [Frederick S., Jr.] Machine Tool and Gage Award, 1971, to William P. Koster and Louis J. Frits **Ja 73**
Design Problem Contest Award, 1970–1971, to Barry T. Baker **Ja 79**
Diesel and Gas Engine Power Award presented to R. Rex Robinson at 1972 DGP Conference **Jl 96**
Eckman [Donald P.] Award to Be Granted at '72 Joint Automatic Control Conference [NR] **F 64**
Freeman [John R.] Scholar Award recipients and lecturers, 1971: Jack W. Hoyt and Ronald F. Probstein **Ja 79, Ja 88**
Frits [John] Medal Board of Award Selects Lyman Dwight Wilbur for 1973 [NR] **Jl 75**; 1971 Medal to William Webster **Ja 79**
Gantt [Henry Laurence] Memorial Gold Medal of 1971 goes to D. C. Burnham [NR] **Ap 83**
Gas Turbine Division of ASME presents Power Award for 1970 to J. L. Kerrebrock and A. A. Mikolajczak **Je 91**
Guggenheim [Daniel] Medal, 1972, to William C. Mentzer, posthumously **Ag 85**
Heat Transfer Division Memorial Awards, 1971, to B. T. Chao and Harold A. Johnson **Ja 74**
Hersey [Mayo D.] Award
1971 award to Dudley Dean Fuller **Ja 73**
1972 award to Sydney J. Needs at International Lubrication Conference, 1972 **D 90**
Hoover Medal
1971 Medal to Luis A. Ferre **Ja 80**; Vice-President Agnew Presents Governor Luis A. Ferre of Puerto Rico, ASME Fellow, with Hoover Medal **Ap 98**
Knapp [Robert T.] Award, 1971, presented by ASME Fluids Engineering Division to P. N. Shankar **Je 91**
Lawrence [Ernest Orlando] Memorial Award
Nominations for Ernest Orlando Lawrence Memorial Award Solicited **Jl 100**
Lubrication Conference (1972 International) Best Paper Award presented to Herbert S. Cheng **D 90**
Machine Design Award, 1971, to Walter L. Starkey **Ja 75**
Mackey [Guerard] Best Paper Award presented to James K. Jordan at PEM Division Conference, 1972 **D 85**
Main [Charles T.] Award
1971 award to James M. Singleton **Ja 78**
1972 Award and Certificate to Harold Chapin Lowe **S 29, 31**
Melville [George W.] Medal, 1971, to Thomas Slot **Ja 73**
Moody [Lewis F.] Award, 1971, presented by ASME Fluids Engineering Division to H. Ito and K. Nambu **Je 91**
Offshore Technology Conference, 1972
Distinguished Achievement Awards
Companies, Organizations, or Institutions: S.S. *Manhattan* Project of Humble Oil & Refining Co. [NR] **Jl 69**
Individuals: Offshore Drilling Unit Designs of Jerome L. Goldman [NR] **Jl 69**
Oldenburger [Rufus] Medal, 1971, to Charles Stark Draper **Ja 73**
Old Guard Prize Competition, 1971, won by James Lee **Ja 87**
Pi Tau Sigma Gold Medal, 1971, to James R. Rice **Ja 78**
Prime Movers Committee Award (1972) to George S. Liao and Paul Leung **N 85, 88**
Richards [Charles Russ] Memorial Award, 1971, to Howard L. Harrison **Ja 78**
Sawyer [R. T.] Award, 1972, presented by ASME Gas Turbine Division to first recipient, R. T. Sawyer **Je 91**
Spirit of St. Louis Medal, 1971, to Ralph L. Creel **Ja 73**
Taylor [J. Hall] Medal, 1971, to James M. Guy **Ja 73**
Timoshenko [Stephen P.] Medal, 1971, to Howard W. Emmons **Ja 76**
Warner [Worcester Reed] Medal, 1971, to Stephen H. Crandall **Ja 73**
Westinghouse [George] Gold Medal of 1972 awarded by ASME to William States Lee **N 86, 88**
Westinghouse [George] Silver Medal awarded by ASME for first time, in 1972, to William Eugene Rice **N 86, 88**
Williston [Arthur L.] Medal and Award
1971: to James A. Willms **Ja 79**
1972: to Dennis Lee Sandberg **S 29, 30**
**Hood, P. M.** Capabilities for Turbine Engine Testing at the Arnold Engineering Development Center [71-WA/GT-8] (*A*) **Ja 53**
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Hoover [Herbert] Medal of 1971 to Luis A. Ferre **Ja 80**; Vice-President A...ew Presents Governor Luis A. Ferre of Puerto Rico, ASME Fellow, with Hoover Medal **Ap 98**
**Hopkins, B. L., Jr.** The Employment Problem (*C*) **Je 68**
**Hopkinson Bars**
An Analysis of the Split Hopkinson Bar Technique for Strain-Rate-Dependent Material Behavior [72-APM-26] (*A*) **Ag 51**
**Hopson, G. D.** Skylab [based on 71-Av-14]: Part 1—The Mission and Its Requirements **Mr 11**; Part 2—Thermal Environment Control **Ap 33**; Part 3—Life Support Systems **My 35**
**Hoque, J. E.** deceased **Ja 106**
**Hori, Y.** Stability Characteristics of Floating Bush Bearings [71-Lub-9] (*A*) **Ja 46**
**Horlacher, W. R.** Development of a Sulfur Control Program [71-WA/Pwr-5] (*A*) **Ap 69**
**Horlock, J. H.** An Approximate Analysis of the Unsteady Lift on Airfoils in Cascade [72-GT-5] (*A*) **My 64**
**Hornbeck, R. W.** A Numerical Solution for Laminar Entrance Flow in a Square Duct [72-APM-DDD] (*A*) **O 67**
**Hornbuckle, J. D.** San Onofre Unit One Material Surveillance Program—Two Years' Operation [72-PVP-16] (*A*) **N 63**
**Horsepower**
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**Horsten, E. A.** The Distortion of Turbulent Velocity and Temperature Profiles on Heating, for Mercury in a Vertical Pipe [72-HT-21] (*A*) **S 55**
**Horton, T. E.** Design of a Specular Aspheric Surface to Uniformly Radiate a Flat Surface Using a Nonuniform Collimated Radiation Source [72-HT-J] (*A*) **N 64**
**Horvath, J.** Design and Test Evaluation of a Liquid Metal Regenerator for Gas Turbines [72-GT-33] (*A*) **My 68**
**Hose**
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**Hospitals**
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**Housner, J.** Oval Ring with Stiffeners [71-WA/DE-14] (*A*) **F 48**
**Hovercraft**
British Experience Using the Aero Derived Gas Turbine for Main Propulsion in Air Cushion Vehicles and Fast Patrol Craft [72-GT-76] (*A*) **Je 58**
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**Howard, G. S.** Proposed Gas Turbine Procurement Standard: Gaseous and Liquid Fuels [71-WA/GT-3] (*A*) **Ja 52**
**Howard, V. R.** deceased **O 101**
**Howe, H.** deceased **My 105**
**Howell, A. K.** deceased **N 103**
**Howes, P. S.** The Static and Dynamic Behavior of Warren Type Machine Tool Structural Elements [71-WA/Prod-7] (*A*) **Mr 53**
**Hoyt, Harlan** receives Fellow ASME certificate **Ap 104**
**Hoyt, J. W.** is 1971 John R. Freeman Scholar Award recipient and lecturer **Ja 79, 88**
**Hoyt, W. R.** deceased **S 91**
**Hribar, A. E.** Secondary Flow Induced by a Transverse Resonant Acoustic Field in a Circular Duct [72-FE-6] (*A*) **Je 59**
**HSGTS (High-Speed Ground Transport System)**
Split Propulsion for High-Speed Ground Transport [72-RT-1] (*A*) **My 62**
**Hsiao, K. H.** Pressurization of a Solidifying Sphere [71-APM-AAA] (*A*) **Ap 74**
**Hsieh, D. Y.** On the Dynamics of Nonspherical Bubbles [72-FE-22] (*A*) **Je 61**
**Hsing, F. C.** Formulation of a Generalized Narrow Groove Theory for Spiral Grooved Viscous Pumps [71-Lub-1] (*A*) **Ja 46**
**Hsu, C. S.** Impulsive Parametric Excitation: Theory [71-WA/APM-19] (*A*) **Ap 74**; Liapunov Stability Criteria for Continuous Systems Under Parametric Excitation [71-APM-EEE] (*A*) **Ap 75**
**Hsu, K. H.** Finite Inflation of a Bonded Toroid [71-WA/APM-20] (*A*) **Ap 74**
**Huang, M.** Design of Linkages Using Dynamic Simulation and Optimization Techniques [72-Mech-84] (*A*) **D 64**
**Hubbard, C. W.** deceased **F 84**
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**Huckle, Myron S.** Geothermal Power (*C*) **Mr 63**
**Huddleston, J. C.** Integrated Water Vapor Electrolysis Oxygen Generator and Hydrogen Depolarized Carbon Dioxide Concentrator Development [72-ENAv-7] (*A*) **O 60**
**Huddleston, J. V.** Nonlinear Analysis of Steep, Compressible Arches of Any Shape [71-APM-BBB] (*A*) **Ap 75**
**Hudson, J. K.** deceased **My 105**
**Huebner, K. H.** Application of Finite Element Methods to Lubrication: An Engineering Approach [72-Lub-N] (*A*) **O 66**
**Huey, C. O., Jr.** Cam-Link Mechanism for Error-Free Generation [72-Mech-70] (*A*) **D 63**
**Hughes, R. C.** Feasibility and Design Considerations of Solids Pipelines [72-Pet-59] (*A*) **D 57**
**Hulls**
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**Human Factors** (*Continued*)
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Analytical Solutions to the Problem of Transient Heat Transfer in Living Tissue [71-WA/HT-36] (*A*) **Mr 51**
Application of Bio-Heat-Transfer Model to Determine Regional Blood Flow Rate [71-WA/HT-38] (*A*) **Mr 51**
Artificial Hand Mechanisms [72-Mech-55] (*A*) **D 61**
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Breakthroughs in Cancer Research [BTR] **N 48**
*Study of* Burn Hazard in Human Tissue and Its Implication on Consumer Product Design [71-WA/HT-39] (*A*) **Mr 51**
Calculation of Drug Dosages and Identification of Cardiac Disease States [72-Aero-7] (*A*) **N 60**
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Control of Artificial Arm Kinematics [72-Mech-89] (*A*) **D 64**
Deformation of Red Cells in Shear Fields [71-WA/BHF-11] (*A*) **My 58**
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